

What is claimed is:

1. A process for the recombinant production of an antifusogenic peptide by expression of a nucleic acid encoding the antifusogenic peptide as a repeat peptide in a microbial host cell to form inclusion bodies which comprise said repeat peptide, comprising the steps of washing the inclusion bodies with a denaturing agent at a pH value of at or below pH 6.5, solubilizing the washed inclusion bodies at a pH value of at least pH 9, and cleaving said repeat peptide to obtain said antifusogenic peptide.
2. The process according to claim 1, wherein the washing is performed from about pH 3 to about 5.
3. The process according to claim 1, wherein said repeat peptide is cleaved during solubilization of said inclusion bodies.
4. The process according to claim 1, wherein said repeat peptide is cleaved after solubilization of said inclusion bodies.
5. The process according to claim 1, further comprising isolating the produced antifusogenic peptide.
6. A nucleic acid which encodes a fusion polypeptide consisting of (in N-terminal to C-terminal direction):
 - a) an antifusogenic peptide which is a repeat peptide of at least two identical antifusogenic peptide sequences; and
 - b) a peptide sequence which comprises a cleavage peptide and which is located between the antifusogenic peptide sequences.
7. The nucleic acid according to claim 6, wherein the antifusogenic peptide sequence consists of from 10 to 100 amino acids.
8. The nucleic acid according to claim 6, wherein the repeat peptide consists of 2 to 20 identical antifusogenic peptide sequences.

9. The nucleic acid according to claim 6, wherein the antifusogenic peptide sequence is selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, and fragments thereof.
10. The nucleic acid according to claim 6, wherein the peptide sequence which comprises a cleavage peptide is selected from the group consisting of SEQ ID NO:5, SEQ ID NO:6, and SEQ ID NO:7.
11. A preparation of inclusion bodies comprising a fusion polypeptide, said fusion polypeptide comprising (in N-terminal to C-terminal direction):
- a) an antifusogenic peptide which is a repeat peptide of at least 2 identical antifusogenic peptide sequences, each of which has a length of from about 10 to 100 amino acids; and
 - b) a cleavage peptide located between the antifusogenic peptidesequences.